

~~the load being~~ connected to a first electrode of the photodiode through ~~a signal contact~~ and connected to a common bus, ~~at the other side, characterized in that~~ with the radiation detector additionally comprises including a transistor and an interrogation pulse generator, with ~~the a~~ a second photodiode electrode of the photodiode coupled ~~with the~~ to a first second electrode of the transistor, ~~the~~ with a control electrode of ~~which is the transistor~~ coupled ~~with the~~ to an output of the interrogation pulse generator; and ~~the~~ with a third transistor electrode ~~is coupled with~~ to the common bus.

2. (currently amended): ~~A~~ The radiation detector according to claim 1, ~~characterized in that~~ further including N groups of elements, each group of elements including a ~~consisting of the series-connected~~ photodiode and a transistor, ~~with the photodiode connected to the transistor, are placed with the photodiode and transistor connected in parallel with the load, and with the~~ interrogation pulse generator ~~comprises having~~ N outputs, each ~~of the output of the N outputs being~~ coupled ~~with~~ to the ~~transistor~~ control electrode of the transistor from ~~the a~~ a respective group of elements, where N is an integer greater than one. ~~>1.~~

3. (currently amended): ~~A~~ The radiation detector according to claim 2, ~~characterized in that~~ with said radiation

detector ~~comprises~~ having L loads, with N_i groups of elements being placed in parallel with each i-th load, ~~and the~~ with said radiation detector having a total number of groups of elements contained in said detector equals the equal to a number of N outputs of the interrogation pulse generator, where L is an integer > 1 , N_i is a positive integer, and i is an index of the positive integer.

4. (currently amended): ~~A~~ The radiation detector according to ~~claims claim~~ claim 1 ~~and/ or 2 or 3, with each group of elements further including a capacitor characterized in that capacitors are connected in parallel with photodiodes each photodiode in each group of elements, respectively.~~

5. (currently amended): A radiation detector comprising a group of elements, with the group of elements including a radiation-sensitive element and a load, with said radiation-sensitive element being connected to a supply voltage bus at one side, and the load being connected to a common bus, at one side, ~~characterized in that~~ with said radiation detector additionally comprises including a transistor, a capacitor and an interrogation pulse generator, with the radiation-sensitive element being connected to the a first electrode of the transistor at the other side and to the a first plate of the capacitor, the with a second plate of which is the capacitor

connected to ~~a signal contact of the load, and the~~ an output of the interrogation pulse generator is coupled ~~with the~~ to a control electrode of the transistor, ~~with the~~ a third electrode of ~~which is the transistor~~ connected to the common bus.

6. (currently amended): A The radiation detector according to claim 5, ~~characterized in that~~ further including N groups of elements, with each consisting of group of elements of the N groups of elements comprising a ~~the series-connected~~ radiation-sensitive element ~~and~~ connected to a transistor with the radiation sensitive element and the transistor connected between the supply voltage and the common bus, with a capacitor connected between the respective transistor and the common point of which is coupled to the load signal output via the capacitor, are connected between the supply voltage bus and common bus, and with the interrogation pulse generator having ~~comprises~~ N outputs, ~~each being~~ with each of the N outputs connected to ~~the transistor~~ a control electrode of the respective transistor in from the respective group of elements, where N is an integer greater than one. ~~>1.~~

7. (currently amended): A The radiation detector according to claim 6, ~~characterized in that~~ with said radiation detector ~~comprises~~ having L loads, with a signal contact of each i-th load ~~being~~ connected to N_i groups of elements, ~~and the~~ with

a total number of groups of elements of said radiation detector ~~comprises being~~ equal to the number of N outputs of the interrogation pulse generator, where L is an integer greater than one, >1, with N_i is a positive integer, with i an index to each load of the L loads.

8. (currently amended): A The radiation detector according to claims 5 ~~and/~~ or 6 or 7, ~~characterized in that the~~ with a resistor ~~resistors are~~ connected between the each radiation sensitive element ~~elements~~ and a common point ~~points~~ of each transistor and capacitor in each group of elements, respectively. ~~the transistors and capacitors.~~

9. (currently amended): A radiation detector comprising a radiation-sensitive element and a load, with the radiation- sensitive element ~~being~~ connected to ~~the~~ a supply voltage bus ~~at one side~~ and the load ~~being~~ connected to ~~the~~ a common bus ~~at one side~~, ~~characterized in that~~ with said radiation detector ~~additionally comprises~~ including a transistor and an interrogation pulse generator, with the radiation- sensitive element ~~being~~ connected to ~~the~~ a first electrode of the transistor ~~at the other side~~ and ~~the~~ an output of the interrogation pulse generator ~~being~~ connected to ~~the~~ a control electrode of the transistor, ~~the~~ with a third electrode of the transistor ~~which is coupled with~~ to the load ~~signal contact.~~